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Subject: [CPEO-MEF] FUSRAP website

The following is a link to DOE's Office of Site Closure's "Considered Sites Database"

<http://csd.apps.em.doe.gov/>

The current vision for the presentation of information in the DOE Considered Sites Database on Environmental Management's website includes two elements.

1. Formerly Utilized Sites Remedial Action Program (FUSRAP) considered sites, will address over 600 sites identified in the 1995 list released by DOE in conjunction with this commitment.

2. "Other Sites Database" will address another group of sites introduced in the initial database framework that were not considered for inclusion in

* FUSRAP.

FUSRAP is an environmental cleanup program established in March 1974 by the Atomic Energy Commission under authority of the Atomic Energy Act of 1954.

The program was created to identify, investigate and take appropriate cleanup action at sites with radioactive contamination from the nation's

early atomic energy program. The EPA also has regulatory input on some aspects of the FUSRAP program, it consults and advises on the identification and removal of the hazardous waste in the remedial action plans, and it regulates waste both on and off site.

* Research and development projects leading to the cleanup of several FUSRAP sites was directed (in the language of conference committee reports) by the 1984 and 1986 Energy and Water Appropriations Acts. Transfer of FUSRAP site cleanup and management activities from the Department of Energy to the USACOE was directed in the 1997 Energy and Water Appropriations Act. Department of Energy support for FUSRAP continues under a Memorandum of Agreement with the Corps.

FUSRAP sites differ from Formerly Utilized Defense Sites (FUDS) in that DoD is responsible for the cleanup of FUDS sites, the Army is the executive agent, and the Army Corps of Engineers is the program's executing agent and manager. A FUDS site is a piece of property that DoD formerly owned, leased, possessed, or operated.



Considered Sites Database

The Department of Energy's Office of Site Closure, EM-30, developed the DOE Considered Sites Database in response to the Department's Fall of 2000 commitment to make information available that would increase the public's understanding of nuclear energy technology development and the potential for residual radioactive contamination at the sites included in the Database. The current vision for presentation of the information in the DOE Considered Sites Database on Environmental Management's website includes two elements. The first, the FUSRAP Considered Sites Database, will address over 600 sites identified in a 1995 list released by the Department in conjunction with this commitment. These sites were evaluated as candidates for the Department's Formerly Utilized Sites Remedial Action Program (FUSRAP). The second element identified as "Other Sites Database" will address another group of sites introduced in the initial database framework that were not considered for inclusion in FUSRAP.

The DOE Considered Sites Database reflects a work in progress. Sites where information is presently available and complete are linked to a more detailed description. In the case of sites where there is no link provided, information is being assembled and updated and will be available soon on this website. The public may also request site information at this time on any individual site of interest by submitting a Freedom of Information Act Request to the DOE.

I. FUSRAP Considered Sites Database

Background. The FUSRAP Considered Sites Database was developed to facilitate public access to information assembled during an extensive, long-term records search that was initiated in the mid-1970s by DOE predecessor organizations and continued by the Department of Energy.

This search was initiated in response to concerns about the potential for residual radioactive contamination in the public and private sectors as a consequence of work accomplished in support of nuclear energy technology development that began in the early 1940s by the Manhattan Engineer District (MED) of the U.S. Army Corps of Engineers (USACOE). The records search was conducted and the information assembled was analyzed in accordance with specific protocols and criteria. Candidate sites have been assessed for potential residual radioactive contamination. Over time, the records were assembled into site-specific files currently maintained as the core element of the FUSRAP Library, the principal source of information for this database.

As the records search progressed, details in site specific files increased to include copies of contracts, operational records and other documents describing site operations in support of MED and successor organizations. Analyses of these data were conducted to assess the potential for residual radioactive contamination at each of the sites. By October 1997, with few exceptions, each of the FUSRAP considered sites had been evaluated and determinations made to whether to designate the site for cleanup under FUSRAP or to eliminate the site from further consideration. Forty-six (46) sites were designated for cleanup; the remainder were eliminated from further consideration under FUSRAP. The basis for such determinations is recorded in programmatic protocols and guidelines/criteria derived primarily from Federal regulations and legislation.

Research and development projects leading to the cleanup of several FUSRAP sites was directed (in the language of conference committee reports) by the 1984 and 1986 Energy and Water Appropriations Acts. Transfer of FUSRAP site cleanup and management activities from the Department of Energy to the USACOE was directed in the 1997 Energy and Water Appropriations Act. Department of Energy support for FUSRAP continues under a Memorandum of Agreement with the Corps.

FUSRAP Considered Sites Database. Sites identified in the database are divided into two distinct categories.

- Sites **DESIGNATED** for remediation under FUSRAP

Records assembled indicated a potential for residual radioactive contamination on the site as a consequence of operations in support of the MED and/or Atomic Energy Commission (AEC) activities, and there is authority under the Atomic Energy Act (AEA) of 1954, as amended, to perform remedial actions at the site. By October 1997, the DOE had completed remedial action at twenty-one (21) of the forty-six (46) sites formally designated for cleanup. Since that time, the USACOE has continued the cleanup of FUSRAP designated sites.

- Sites **ELIMINATED** from further consideration for remediation under FUSRAP

The elimination of sites from further consideration for remediation is based upon findings derived from studies and analyses conducted by DOE. If present, residual radioactive material on the sites do not exceed current criteria and guidelines for exposure to radiation sources, or records do not support a finding of DOE authority for cleanup of the site. Principal findings that resulted in the elimination of a site from further consideration were: (1) no authority; (2) no indication that radioactive materials were used at the site; or (3) determination was made that the potential for residual radioactive contamination on the site that measures beyond DOE criteria is remote.

A significant period of extensive records search activities has revealed that: 1) the amount and the detail of information available on a site depends in large part on the duration, intensity of operations and health and safety implications on a given site. Larger, more complex operations produced more extensive paper trails. And 2) conversely, the lack of information/documentation on a given site, coupled with negative intelligence; i.e., absence from contract and accountability station lists and mention in trip reports and health and safety assessments, is evidence that work done at the site was of limited duration and complexity. Most likely the work did not involve materials or operations with extensive health and safety implications. Furthermore, such conditions also indicate that the potential for finding additional, meaningful information about the site is remote. The latter is particularly significant in efforts to determine the potential for residual contamination at most of the considered sites for which little or no documentation is available.

Elements of Information on Sites in the Database. Ten specific elements of information, structured in a common format, were selected to provide a concise description of each site from both a historical and a current status perspective. These elements of information are:

- **FUSRAP Designated Name.** A site's designated name is the official name used in formal documentation supporting the designation of the site for remedial action. For sites that were not designated for cleanup under FUSRAP, "Not Designated" will be entered in this space - the first indication in the summary information that the site was eliminated from further consideration as a candidate for cleanup under FUSRAP.
- **Alternate Site Name(s).** Over an extended period, sites were referred to by different names or titles. The most common alternate names are included to facilitate identification and prevent duplication of sites in this list.
- **Site Location.** If applicable, a complete street address including number and street, city and state, is provided in the database. However, in most instances, particularly for those sites that involve large land areas where land use has changed over the years, specific street addresses are not available. In such cases street intersections and legal descriptions are used if they are available.
- **Evaluation Year.** The year in which the decision to designate or eliminate a site from FUSRAP is provided here. A more precise date may be gleaned from the referenced documentation.
- **Site Operations.** A brief description of the operations conducted on the site in support of MED or AEC programs and activities.
- **Site Disposition.** Information here reflects the FUSRAP designation or elimination decisions made with respect to each site - if eliminated, the basis of the decision such as "no authority" or "residual radioactivity below criteria" is provided. In most instances, a finding of "no authority" is followed by indication of a referral of the site to another Federal or State agency for consideration.
- **Radioactive Materials Handled?** Simply a "Yes" or "No" or "None Indicated" - if yes, the primary radioactive materials are identified below.
- **Primary Radioactive Materials Handled.** Only the primary radioactive elements (uranium, thorium and some transuranic elements) present on the site are identified here. In some instances, non-radioactive elements are such beryllium, zirconium and other rare metals, if present on the site, are also identified.
- **Radiological Surveys Conducted?** Again, a "Yes" or "No" or "None Indicated" - if yes, all available reports of surveys conducted are identified as reference documents.
- **Site Status.** This element of the database indicates the current status of the site to the extent information is

available and is of particular significance. Also, it is time sensitive with respect to those sites where remedial action is in process, is planned or is under consideration. A brief description of responses typically found here are as follows:

1. Cleanup Complete - Certified. For those FUSRAP sites where DOE completed the cleanup and certified the radiological conditions on the sites by Federal Register Notice and the distribution of a Certification Docket.
2. Cleanup Complete - Certification Pending. For those FUSRAP sites where DOE completed cleanup and the certification of site conditions is in process.
3. U.S. Army Corps of Engineers (FUSRAP) - Cleanup Pending. For sites currently under consideration for cleanup by the Corps.
4. U.S. Army Corps of Engineers (FUSRAP) - Cleanup in Process. For those FUSRAP designated sites where cleanup is underway.
5. U.S. Army Corps of Engineers (FUSRAP) - Cleanup Complete. For those sites where cleanup was completed by the Corps.
6. Eliminated from consideration under FUSRAP. For those sites that have been considered for FUSRAP but have been eliminated from the program due to "no authority" or other indications that the site did not warrant inclusion in FUSRAP. Referral of the site to another Federal agency may also be indicated here.

Other information sources, in addition to the FUSRAP library site files, are used to provide more comprehensive and current information on several of the sites eliminated from consideration under FUSRAP. Where appropriate, site names are linked to other web pages. Furthermore, some of the site names are linked to summary narratives that provide data on eliminated sites for which little information is available.

Search Considered Sites Database

II. Other Sites Database

The objective of the Other Sites Database is to provide information on a group of approximately 40 sites in the initial DOE Considered Sites Database framework that were not considered for inclusion in FUSRAP. A brief narrative providing a description and status of the sites can be accessed by a mouse click on the site name. Office of Site Closure.

Search Other Sites Database

Please direct any comments to [Don Mackenzie](#), EM-31, and

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FUSRAP CONSIDERED SITES DATABASE REPORT		
FIELD	DATA	SOURCE(S)
Site Name -- ID	ST. LOUIS AIRPORT STORAGE SITE (SLAPS) -- MO.01	
Designated Name	St. Louis Airport Storage Site (SLAPS)	
Alternative Name(s)	None	
Location	Brown Road, Robertson, Missouri	DOE Report (DOE/EV-0005/16); Radiological Survey of the St. Louis Airport Storage Site, St. Louis, Missouri; September 1979
Evaluation Year	1984	DOE Memorandum; Coffman to LaGrone; Subject: Authorization for Actions Under the Formerly Utilized Sites Remedial Action Program (FUSRAP) at the St. Louis Airport Storage Site, St. Louis, MO. And the W.R. Grace Site at Curtis Bay, Md.; October 9, 1984
		1984 Energy and Water Development Appropriation Act (Conference Report)
Site Operations	Stored radioactive process residues for the MED and the AEC.	AEC Summary; Subject: Airport Site, Robertson, Missouri; April 11, 1959
		AEC Memorandum; Dowling to Bistyga; Subject: Pitchblende AM-7 Raffinate at St. Louis Airport; June 15, 1956
Site Disposition	FUSRAP - Designated	DOE Memorandum; Coffman to LaGrone; Subject: Authorization for Actions Under the Formerly Utilized Sites Remedial Action Program (FUSRAP) at the St. Louis Airport Storage Site, St. Louis, MO. And the W.R. Grace Site at Curtis Bay, Md.; October 9, 1984
		1984 Energy and Water Development Appropriation Act (Conference Report)
Radioactive Materials Handled?	Yes	
Primary Radioactive Materials Handled	Uranium, Radium, Thorium	AEC Memorandum; Dowling to Bistyga; Subject: Pitchblende AM-7 Raffinate at St. Louis Airport; June 15, 1956
		DOE Report (DOE/EV-0005/16); Radiological Survey of the St. Louis Airport Storage Site, St. Louis, Missouri; September 1979
Radiological Survey (s) Conducted?	Yes	DOE Report (DOE/EV-0005/16); Radiological Survey of the St. Louis Airport Storage Site, St. Louis, Missouri; September 1979
		DOF Report (Bechtel); Radiological Survey of the Ditches at the St. Louis Airport Storage Site (SLAPSS); August 1983
Site Status	U.S. Army Corps of Engineers (FUSRAP) - Cleanup in Process	DOE Letter; Peña to Cohen; Subject: Transfer of FUSRAP Sites from DOE to U.S. Army COE; October 10, 1997. Attachment: FUSRAP Current, Currently Known Potential and Completed Sites.
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FUSRAP CONSIDERED SITES DATABASE REPORT		
FIELD	DATA	SOURCE(S)
Site Name -- ID	ST. LOUIS DOWNTOWN SITE -- MO.02	
Designated Name	Mallinckrodt Chemical Company	
Alternative Name(s)	St. Louis Downtown Site	DOE Memorandum; Coffman to LaGrone; Authorization for Remedial Action at the Seaway Industrial Park and Ashland Oil Co. (I) Sites at Tonawanda, NY and Mallinckrodt Chemical Co., St. Louis, Mo.; June 22, 1984
Location	65 Destrehan Street, St. Louis, Missouri	AEC Memorandum; Morgan to Sapirie; Subject: Uranium Oxide Scrap; July 28, 1948
Evaluation Year	1984	DOE Memorandum; Coffman to LaGrone; Authorization for Remedial Action at the Seaway Industrial Park and Ashland Oil Co. (I) Sites at Tonawanda, NY and Mallinckrodt Chemical Co., St. Louis, Mo.; June 22, 1984
Site Operations	Uranium metal research, development and production operations for the MED and AEC.	MED Memorandum; Simons to the Officer in Charge; Subject: Shipment Security Survey at Mallinckrodt Chemical Works; February 15, 1945. Attachment: Exhibits A, B & C: Summaries of Shipments.
		Mallinckrodt Chemical Works Letter; Fistere to Kelley; Subject: Production of Uranium Metal for Commercial Uses; April 25, 1949
Site Disposition	FUSRAP - Designated	DOE Memorandum; Coffman to LaGrone; Authorization for Remedial Action at the Seaway Industrial Park and Ashland Oil Co. (I) Sites at Tonawanda, NY and Mallinckrodt Chemical Co., St. Louis, Mo.; June 22, 1984
Radioactive Materials Handled?	Yes	
Primary Radioactive Materials Handled	Uranium Oxides and Metal	Mallinckrodt Chemical Works Letter; Fistere to Kelley; Subject: Production of Uranium Metal for Commercial Uses; April 25, 1949
Radiological Survey (s) Conducted?	Yes	DOE Report (EGG-1183-1721 UC-41); An Aerial Radiological Survey of the Area Surrounding the Mallinckrodt Nuclear Maryland Heights Facility and Two Additional Sites St. Louis, Missouri, Date of Survey: October 1977; September 1979
		DOE Report (DOE/EV-0005/27 ORNL-5715); Radiological Survey of the Mallinckrodt Chemical Works, St. Louis, Missouri; December 1981
Site Status	U.S. Army Corps of Engineers (FUSRAP) - Cleanup in process	DOE Memorandum; Peña to Cohen; Subject: Transfer of FUSRAP Sites from DOE to U.S. Army COE; October 10, 1997. Attachment: FUSRAP Current, Currently Known Potential and Completed Sites.
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FUSRAP CONSIDERED SITES DATABASE REPORT		
FIELD	DATA	SOURCE(S)
Site Name -- ID	LATTY AVENUE SITE -- MO.04	
Designated Name	Latty Avenue	
Alternative Name (s)	Futura Coatings	DOE Letter; Keller to Jarboe; Subject: Agreement for Use of Property at 9200 Latty Avenue, Hazelwood, Missouri; November 22, 1983
	Hazelwood Interim Storage Site (HISS)	DOE Report (DOE/OR/20722-141); Characterization Report for the Hazelwood Interim Storage Site, Hazelwood, Missouri; June 1987
Location	9200 Latty Avenue, Hazelwood, Missouri	DOE Letter; Keller to Jarboe; Subject: Agreement for Use of Property at 9200 Latty Avenue, Hazelwood, Missouri; November 22, 1983
Evaluation Year	1984	DOE Memorandum; Coffman to LaGrone; Subject: R&D Decontamination Projects Under the Formerly Utilized Sites Remedial Action Program (FUSRAP); August 3, 1983
Site Operations	Received, stored and processed uranium residues that were purchased from the AEC. Storage and processing were licensed by the AEC/NRC.	AEC Memorandum; Layfield to the Files; Subject: Pre-Licensing Visit to the Contemporary Metals Corporation Proposed Facility at Hazelwood, Missouri, and Residue Stockpiles at Robertson, Missouri, Docket No. 40-6811; September 25, 1962
		AEC Letter; Harmon to Donovan; Subject: Amended Source Material License; June 2, 1966. Attachment: U.S. AEC Source Material License No. SMA-862, as Amended; June 2, 1966.
Site Disposition	FUSRAP - Designated	DOE Memorandum; Coffman to LaGrone; Subject: R&D Decontamination Projects Under the Formerly Utilized Sites Remedial Action Program (FUSRAP); August 3, 1983
		1984 Energy and Water Appropriations Act (Conference Report)
Radioactive Materials Handled?	Yes	
Primary Radioactive Materials Handled	Uranium and Thorium Process Residues	AEC Letter; Harmon to Donovan; Subject: Amended Source Material License; June 2, 1966. Attachment: U.S. AEC Source Material License No. SMA-862, as Amended; June 2, 1966.
		DOE Report (ORNL/RASA-85/7); Results of the Mobile Gamma Scanning Activities in Berkeley, Bridgeton and Hazelwood, Missouri; June 1985
		DOE Report (ORNL/TM-10007); Radiological Survey of the Perimeter Fence Line of the Former Cotter Site, Hazelwood, Missouri (LM002); December 1986

Radiological Survey(s) Conducted?	Yes	DOE (ORNL) Interim Report; Radiological Survey of the Property at 9200 Latty Avenue, Hazelwood, Missouri; September, 1977
		DOE (ORNL) Report; Radiological Evaluation of Decontamination Debris Located at the Futura Chemical Company Facility, 9200 Latty Avenue, Hazelwood, Missouri; September 9, 1981
		DOE (ORAU) Report; Preliminary Radiological Survey of Proposed Street Right-of-Way at Futura Coatings, Inc., 9200 Latty Avenue, Hazelwood, Missouri; December 1981
Site Status	U.S. Army Corps of Engineers (FUSRAP) - Cleanup in Process	DOE Letter; Peña to Cohen; Subject: Transfer of FUSRAP Sites from DOE to U.S. Army COE; October 10, 1997. Attachment: FUSRAP Current, Currently Known Potential and Completed Sites.
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